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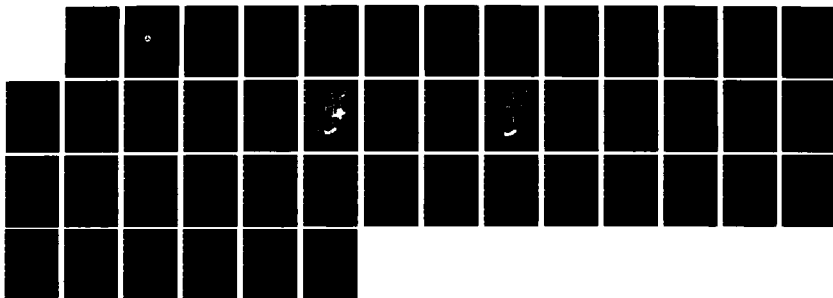
US CIVIL AIRMEN STATISTICS 1980(U) FEDERAL AVIATION  
ADMINISTRATION WASHINGTON DC OFFICE OF MANAGEMENT  
SYSTEMS P W CARTER 31 MAY 81

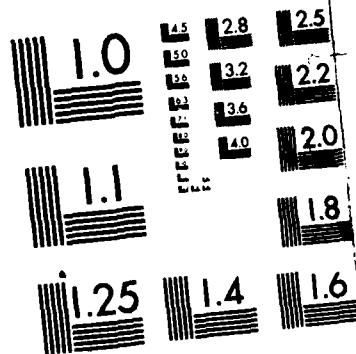
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1980

# U.S. Civil Airmen Statistics

AD-A166 475



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**U.S. Department of Transportation**  
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Technical Report Documentation Page

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Below is a list of the publications compiled by the Information and Statistics Division. Questions may be directed to us by telephoning (202) 426-3791 or writing Information and Statistics Division, AMS-200, Federal Aviation Administration, Washington, D.C. 20591.

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft Accidents.

Reporting period:	Calendar Year
Latest edition:	1979 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1980 information will be available:	Various
Date next publication is scheduled:	December 1981 (1980 data)

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains calendar year statistics on pilot and nonpilots and the number of certificates issued.

Reporting period:	Calendar Year
Latest edition:	1980 data
Order from:	Information & Statistics Division
Date 1981 information will be available:	January 1982
Date next publication is scheduled	June 1982 (1981 data)

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft--both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

Reporting period:	Calendar Year
Latest edition:	1979 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1980 Information will be available:	March 1981
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FAA Air Traffic Activity furnishes terminal and en route air traffic activity information (i.e., operations, flight plans filed) of the National Airspace System. The data is from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, and Approach Control Facilities.

Reporting Period: Fiscal Year  
Latest edition: 1980 data  
Order from: National Technical Information Service  
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Date 1981 information  
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Date next publication  
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General Aviation Pilot and Aircraft Activity Survey includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1978 general aviation operations, fuel consumption and aircraft miles flown. The survey was made by the Federal Aviation Administration with the assistance of the Civil Air Patrol.

Reporting period: Survey conducted in 3-year intervals  
Latest edition: 1978 data  
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Date 1981 information  
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General Aviation Activity and Avionics Survey presents the results of the General Aviation Activity and Avionics Survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The survey reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours.

Reporting period: Calendar year  
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Order from: National Technical Information Service  
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(Refer to: FAA-MS-80-5)

Date 1980 information  
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General Aviation Avionics Statistics report presents avionics statistics for the 1977 general aviation aircraft fleet. The statistics are presented in a capability group framework which enables one to relate airborne avionics equipment to the capability for a general aviation aircraft to function in the National Airspace System.

Reporting period: Calendar Year  
Latest edition: 1977 data  
Order from: National Technical Information Service

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FAA Directory published three times each year, it contains six sections of data: Washington/Region/Center headquarters; field facilities; regional area maps and organizational charts; alphabetical listing; special interest groups; and, a glossary.

Reporting period: Every four months  
Latest edition: May 1981  
Ordering from: Government Printing Office

Date next publication  
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Airport Activity Statistics of Certificated Route Air Carriers joint publication of the Federal Aviation Administration and the Civil Aeronautics Board furnishes airport activity of the certificated route air carriers. Included in the data are passenger enplanements, tons of enplaned freight, express and mail. Both scheduled/nonscheduled service and domestic/international operations shown by airport and carrier are included. This report includes departures by airport, carrier and type of operation, and type of aircraft.

Reporting period: Calendar Year  
Latest edition: 1980 Data  
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## PREFACE

THE U.S. CIVIL AIRMEN STATISTICS IS AN ANNUAL STUDY PUBLISHED TO MEET THE DEMANDS OF FAA, OTHER GOVERNMENT AGENCIES, AND INDUSTRY FOR MORE DETAILED AIRMEN STATISTICS THAN THOSE PUBLISHED IN OTHER FAA REPORTS.

STATISTICS PERTAINING TO AIRMEN, BOTH PILOT AND NONPILOT, WERE OBTAINED FROM THE OFFICIAL AIRMAN CERTIFICATION RECORDS MAINTAINED AT THE FAA AERONAUTICAL CENTER, OKLAHOMA CITY, OKLAHOMA.

THIS STUDY WAS PREPARED IN THE OFFICE OF MANAGEMENT SYSTEMS, INFORMATION AND STATISTICS DIVISION, INFORMATION ANALYSIS BRANCH (AMS-220), BY PATRICIA WILSON CARTER.

DISTRIBUTION: ZMS-348E

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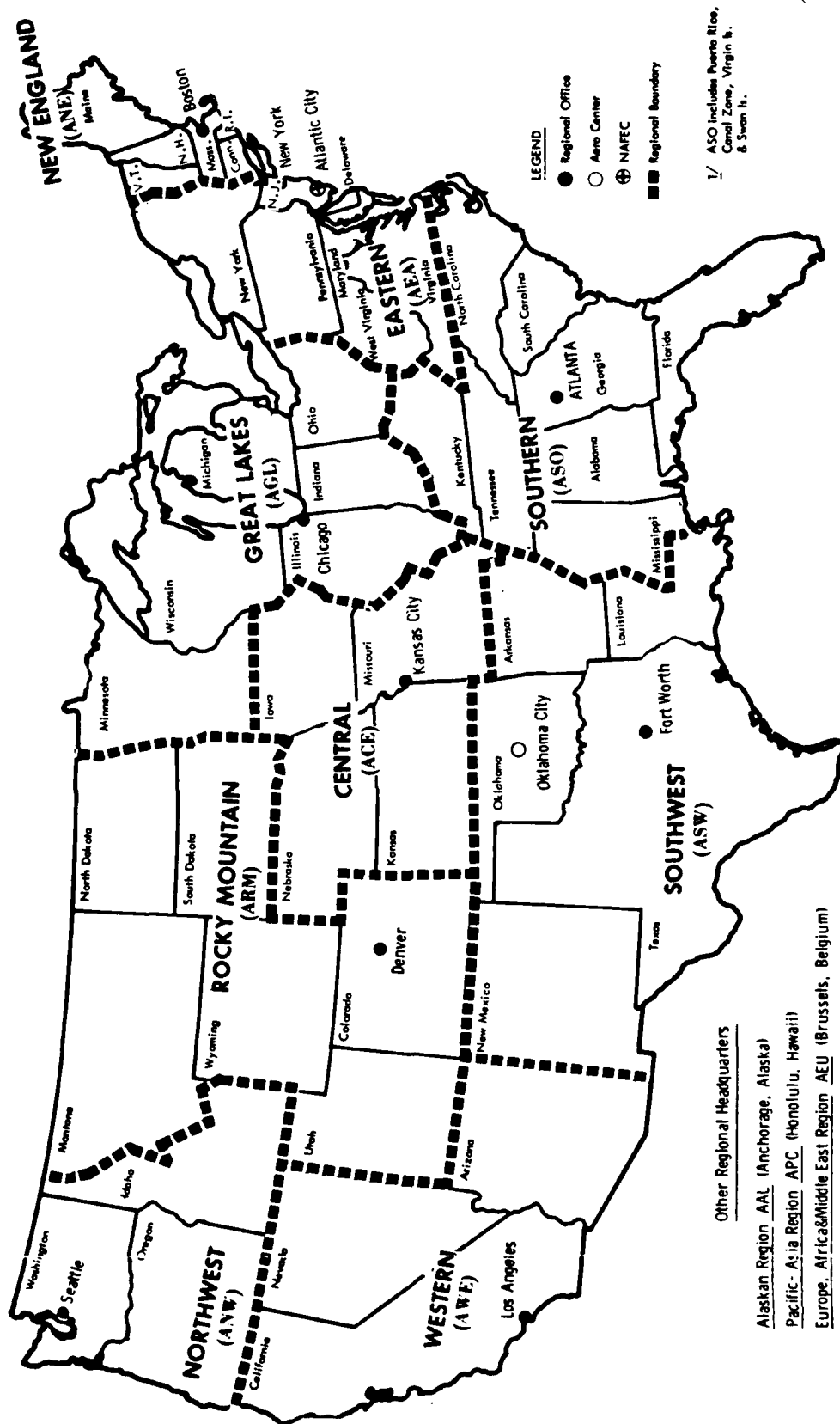
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Department of Transportation  
Federal Aviation Administration

# FAA REGIONAL BOUNDARIES

Including Locations of Regional Headquarters & Centers



1. ACTIVE PILOT CERTIFICATES HELD

TABLE 1

ESTIMATED ACTIVE PILOT CERTIFICATES HELD: DECEMBER 31, 1971-1980

CATEGORY	1971	1972	1973 3/	1974	1975	1976	1977	1978	1979	1980
PILOT--TOTAL . . . . .	741,009	750,869	714,607	733,728	728,187	744,246	B/783,932	798,833	814,667	827,011
STUDENT . . . . .	186,428	181,477	181,905	180,795	176,978	188,801	B/203,510	204,874	210,180	199,833
PRIVATE . . . . .	312,656	321,413	298,921	305,848	305,863	309,005	327,424	337,644	343,216	357,479
COMMERCIAL . . . . .	192,409	196,228	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442
AIRLINE TRANSPORT . .	35,949	37,714	38,139	41,002	42,592	45,072	50,149	55,881	65,652	69,569
HELICOPTER (ONLY) . .	7,992	7,987	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030
GLIDER (ONLY) 1/* . .	3,571	4,080	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039
LIGHTER-THAN-AIR 1/* .	2,004	1,970	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679
NONPILOT--TOTAL . . . .	307,057	B/315,348	304,747	314,394	323,934	334,681	348,584	362,350	377,213	393,486
MECHANIC 1/ . . . . .	193,295	201,700	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,151
PARACHUTE RIGGER 1/ .	6,839	7,287	6,941	7,900	8,327	8,718	8,994	9,200	9,381	9,547
GROUND INSTRUCTOR 1/ .	46,145	48,450	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550
DISPATCHER 1/ . . . .	5,480	5,637	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799
CONTROL TOWER OPERATOR	26,450	B/23,353	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130
FLIGHT NAVIGATOR . . .	3,052	2,957	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936
FLIGHT ENGINEER . . . .	25,796	25,964	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367
FLIGHT INSTRUCTOR CER- TIFICATES . . . . .	37,760	37,858	36,795	42,418	44,777	46,236	49,362	52,201	54,598	60,440
INSTRUMENT RATINGS 2/	179,261	187,909	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA FOR 1980. PASS YEARS ARE BASED ON A 25-MONTH CRITERIA.

\* GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION; HOWEVER, THE TOTALS ABOVE REPRESENT PILOTS WHO RECEIVED A MEDICAL EXAMINATION.

1/ NUMBERS REPRESENT ALL CERTIFICATES ON RECORD. NO MEDICAL EXAMINATION REQUIRED.

2/ SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES, I-E., DO NOT INDICATE ADDITIONAL CERTIFICATES.

3/ THE DECREASE IN THE NUMBER OF AIRMEN RESULTED FROM A PURGING OF THE AIRMEN CERTIFICATION FILES. DURING THIS PROCESS, APPROXIMATELY 26,000 DUPLICATES OR FAULTY RECORDS WERE ELIMINATED.

B/ REVISED.

TABLE 2

ESTIMATED WOMEN ACTIVELY ENGAGED IN AVIATION: DECEMBER 31, 1971-1980

CATEGORY OF CERTIFICATES HELD	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
PILOT--TOTAL . . . . .	31,216	33,001	34,356	36,943	37,934	41,643	47,294	49,874	51,733	52,902
STUDENT . . . . .	16,417	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006
PRIVATE . . . . .	12,332	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554
COMMERCIAL . . . . .	2,032	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,995
AIRLINE TRANSPORT . . . . .	88	101	95	116	137	160	193	270	361	480
HELICOPTER (ONLY) . . . . .	9	10	7	5	11	17	18	17	27	55
GLIDER (ONLY) 1/ . . . . .	169	201	216	271	301	352	391	435	461	496
LIGHTER-THAN-AIR 1/ . . . . .	169	49	130	192	200	165	195	227	277	318
NONPILOT--TOTAL . . . . .	3,413	3,594	3,074	3,471	3,809	4,252	4,716	5,135	5,600	6,111
MECHANIC 1/ . . . . .	322	349	284	315	360	422	505	600	695	890
PARACHUTE RIGGER 1/ . . . . .	470	483	336	495	504	516	535	544	553	562
GROUND INSTRUCTOR 1/ . . . . .	2,081	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015
DISPATCHER 1/ . . . . .	39	40	39	42	50	55	65	76	105	141
CONTROL TOWER OPERATOR . . . . .	501	556	453	473	638	874	1,044	1,151	1,250	1,332
FLIGHT ENGINEER . . . . .	0	0	2	7	8	16	42	82	145	171
FLIGHT INSTRUCTOR . . . . .	646	664	618	834	945	1,054	1,238	1,458	1,699	2,079

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA FOR 1980. PASS YEARS ARE BASED ON A 25-MONTH CRITERIA.

NOTE: INSTRUMENT RATINGS AND FLIGHT NAVIGATOR NOT REPORTED.

\* GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION; HOWEVER, THE TOTALS ABOVE REPRESENT PILOTS WHO RECEIVED A MEDICAL EXAMINATION.

1/ No MEDICAL EXAMINATION REQUIRED.



TABLE 3

ESTIMATED ACTIVE PILOTS AND NONPILOTS CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1980

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	ROCKY MOUNTAIN	WESTERN	NORTHWEST	ALASKAN	PACIFIC	FOREIGN
TOTAL--ALL GROUPS . . . . .	827,071	35,659	103,506	139,193	50,858	126,243	104,454	43,455	144,848	47,520	10,917	5,948	16,490
STUDENT PILOTS--TOTAL . . . . .	199,833	9,289	26,398	34,505	11,464	30,631	24,726	11,030	33,232	11,365	2,379	905	3,909
PRIVATE PILOTS--TOTAL . . . . .	357,479	14,514	43,256	68,031	25,866	49,865	42,291	19,017	63,809	21,611	4,910	1,115	3,194
PRIVATE AIRPLANE (ONLY) . . . . .	348,496	14,140	41,814	66,777	25,480	48,407	41,261	18,529	62,113	21,070	4,819	1,059	5,047
PRIVATE AIRPLANE, PRIVATE GLIDER . .	4,400	232	839	679	153	556	432	225	997	215	25	19	30
PRIVATE AIRPLANE, COMMERCIAL GLIDER .	638	44	125	86	18	52	54	58	155	35	2	5	4
PRIVATE AIRPLANE, PRIVATE GYROPLANE .	39	2	4	11	2	3	6	0	10	1	0	0	0
PRIVATE AIRPLANE, PRIVATE HELICOPTER .	960	28	129	153	52	167	121	31	139	104	10	4	22
PRIVATE AIRPLANE, PRIVATE GLIDER, .													
PRIVATE HELICOPTER . . . . .	44	4	9	8	0	12	2	1	8	0	0	0	0
PRIVATE AIRPLANE, COMMERCIAL .													
HELICOPTER . . . . .	2,867	63	331	313	161	661	413	169	379	186	54	48	89
PRIVATE AIRPLANE, PRIVATE GLIDER, .													
COMMERCIAL HELICOPTER . . . . .	23	1	3	2	0	3	2	1	7	2	0	0	2
PRIVATE AIRPLANE, COMMERCIAL GLIDER, .													
COMMERCIAL HELICOPTER . . . . .	10	0	2	1	0	4	0	3	0	0	0	0	0
PRIVATE AIRPLANE, COMMERCIAL GYRO- .													
PLANE, COMMERCIAL HELICOPTER . . . .	2	0	0	1	0	0	0	0	1	0	0	0	0
COMMERCIAL PILOTS--TOTAL . . . . .	183,442	7,266	23,129	26,096	10,088	30,956	25,641	9,133	31,643	10,391	2,731	1,143	5,225
COMMERCIAL AIRPLANE (ONLY) . . . . .	157,488	6,329	19,550	23,341	8,996	25,674	21,844	7,913	26,931	8,811	2,302	866	4,931
COMMERCIAL AIRPLANE, PRIVATE GLIDER .	2,287	87	383	298	85	358	259	131	509	123	15	16	23
COMMERCIAL AIRPLANE, COMMERCIAL .													
GLIDER . . . . .	4,366	201	685	594	156	660	519	250	939	255	88	51	40
COMMERCIAL AIRPLANE, COMMERCIAL .													
GYROPLANE, COMMERCIAL GLIDER . . .	2	0	1	0	0	0	0	0	1	0	0	0	0

TABLE 3 (CONTINUED)

ESTIMATED ACTIVE PILOTS AND NONPILOTS CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1980

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	ROCKY MOUNTAIN	WESTERN	NORTHWEST	ALASKAN	PACIFIC	FOREIGN
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER . . . . .	190	10	18	31	11	32	24	6	31	21	4	1	1
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER . . . .	13	0	2	5	0	1	1	1	3	0	0	0	0
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	18,253	599	2,373	1,730	808	4,088	2,896	788	3,047	1,121	360	225	218
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . .	156	7	26	24	3	28	15	10	30	9	2	0	2
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . .	616	28	87	65	25	105	75	31	135	46	7	5	9
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE	27	3	1	3	1	3	5	1	7	2	0	1	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE . . . . .	29	2	2	3	2	4	3	2	6	4	1	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	15	0	1	2	1	3	0	0	4	1	2	0	1
AIRLINE TRANSPORT PILOTS--TOTAL . .	65,569	3,789	8,095	8,314	2,760	12,181	9,767	3,272	12,896	3,341	777	605	3,774
AIRLINE TRANSPORT AIRPLANE (ONLY)	58,760	3,738	7,961	8,239	2,746	12,052	9,630	3,234	12,769	3,285	759	596	3,751
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER . . . . .	809	51	134	75	14	129	137	38	127	56	18	7	25
ROTORCRAFT (ONLY) PILOTS--TOTAL . .	6,030	182	736	505	281	1,516	1,108	217	672	368	87	96	262
PRIVATE GYROPLANE . . . . .	5	0	0	1	0	2	1	0	1	0	0	0	0
PRIVATE HELICOPTER . . . . .	374	11	49	56	25	51	51	8	55	44	1	4	19
COMMERCIAL HELICOPTER . . . . .	5,440	165	668	435	253	1,449	990	201	589	318	79	90	205
COMMERCIAL HELICOPTER, PRIVATE GLIDER COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	9	0	0	1	0	1	2	1	2	1	1	0	0
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	8	1	0	0	0	0	3	2	1	0	0	1	0

TABLE 3 (CONTINUED)

ESTIMATED ACTIVE PILOTS AND NONPILOTS CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1980

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	ROCKY MOUNTAIN	WESTERN	NORTHWEST	ALASKAN	PACIFIC	FOREIGN
COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE . . . . .	2	0	0	1	0	1	0	0	0	0	0	0	0
AIRLINE TRANSPORT HELICOPTER . . . . .	192	5	19	11	3	12	61	5	24	5	6	1	40
GLIDER (ONLY)--TOTAL . . . . .	<u>7,039</u>	<u>442</u>	<u>1,434</u>	<u>956</u>	<u>148</u>	<u>531</u>	<u>472</u>	<u>595</u>	<u>1,976</u>	<u>807</u>	<u>12</u>	<u>78</u>	<u>88</u>
PRIVATE GLIDER . . . . .	5,878	348	1,197	803	106	451	371	469	1,720	261	9	66	//
COMMERCIAL GLIDER . . . . .	1,161	94	237	153	42	80	101	126	256	46	5	12	11
LIGHTER-THAN-AIR . . . . .	<u>3,679</u>	<u>157</u>	<u>458</u>	<u>786</u>	<u>251</u>	<u>563</u>	<u>449</u>	<u>191</u>	<u>620</u>	<u>157</u>	<u>21</u>	<u>8</u>	<u>28</u>
TOTAL--ALL NONPILOT . . . . .	<u>393,486</u>	<u>19,139</u>	<u>64,858</u>	<u>49,653</u>	<u>21,090</u>	<u>62,314</u>	<u>48,766</u>	<u>14,777</u>	<u>75,682</u>	<u>17,299</u>	<u>5,836</u>	<u>5,005</u>	<u>15,066</u>
MECHANIC 1/ . . . . .	250,157	12,302	44,114	30,517	14,582	36,827	30,505	8,139	49,878	10,451	2,594	1,996	8,472
PARACHUTE RIGGER 1/ . . . . .	9,547	394	1,574	1,233	441	1,742	1,062	575	1,483	720	155	55	155
GROUND INSTRUCTOR 1/ . . . . .	61,550	2,856	9,331	9,635	3,754	9,473	8,257	2,946	10,632	2,675	630	294	1,069
DISPATCHER 1/ . . . . .	6,799	138	1,494	505	139	1,143	351	161	1,018	191	127	118	1,414
CONTROL TOWER OPERATOR . . . . .	25,130	971	3,915	3,214	1,122	5,634	3,541	1,015	3,765	1,073	550	502	228
FLIGHT NAVIGATOR . . . . .	1,936	207	348	57	10	294	101	50	615	138	6	20	90
FLIGHT ENGINEER . . . . .	38,367	2,271	4,082	4,492	1,042	7,201	4,949	1,891	8,294	2,073	196	218	1,656
FLIGHT INSTRUCTOR CERTIFICATES-- TOTAL . . . . .	<u>60,440</u>	<u>2,485</u>	<u>8,235</u>	<u>10,048</u>	<u>3,348</u>	<u>9,367</u>	<u>8,235</u>	<u>3,110</u>	<u>10,269</u>	<u>3,515</u>	<u>766</u>	<u>514</u>	<u>748</u>
INSTRUMENT RATINGS 2/ . . . . .	<u>260,461</u>	<u>11,364</u>	<u>33,799</u>	<u>38,462</u>	<u>13,186</u>	<u>44,981</u>	<u>34,835</u>	<u>11,798</u>	<u>45,521</u>	<u>13,534</u>	<u>2,988</u>	<u>1,749</u>	<u>8,244</u>

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

1/ TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RETAIN THEIR VALIDITY WITHOUT PERIODIC MEDICAL EXAMINATIONS.

2/ SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES, I.E., DO NOT INDICATE ADDITIONAL RATINGS.

**Figure 2. Total Active Pilots:  
December 31, 1980**

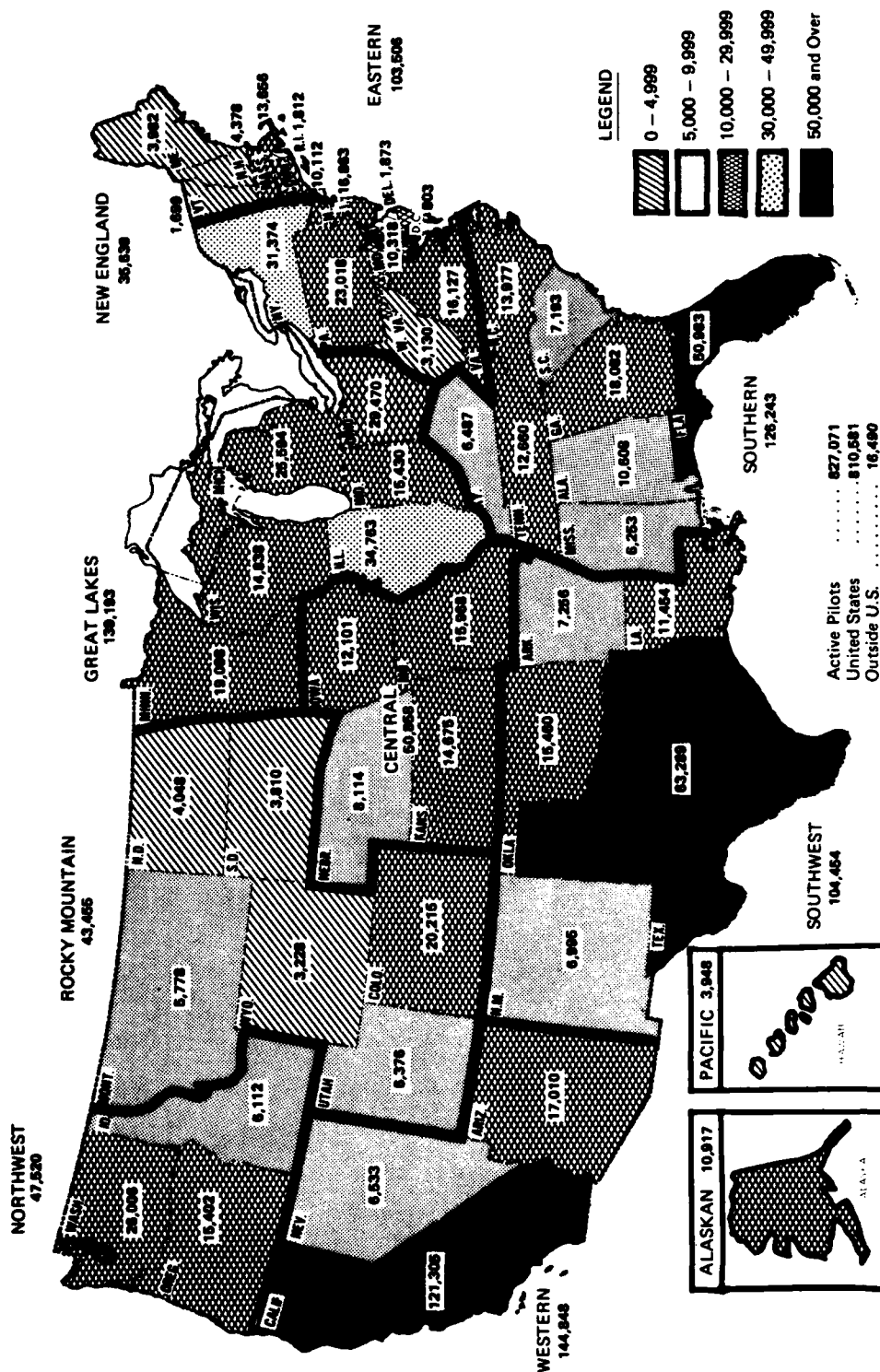


TABLE 4

## ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL PILOTS	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	MISCELLAN- EOUS 2/	FLIGHT INSTRUCTOR 3/
TOTAL . . . .	827,071	199,833	357,479	183,442	69,569	16,748	60,440
UNITED STATES--TOTAL	<u>810,581</u>	<u>195,924</u>	<u>354,285</u>	<u>178,217</u>	<u>65,795</u>	<u>16,360</u>	<u>59,692</u>
NEW ENGLAND--TOTAL . .	<u>35,639</u>	<u>9,289</u>	<u>14,514</u>	<u>7,266</u>	<u>3,789</u>	<u>781</u>	<u>2,485</u>
MAINE . . . . .	3,982	1,057	1,753	915	191	66	243
NEW HAMPSHIRE . . . .	4,378	952	1,553	1,024	751	98	297
RHODE ISLAND . . . . .	1,812	518	790	374	103	27	126
MASSACHUSETTS . . . . .	13,656	3,950	5,962	2,495	923	326	904
CONNECTICUT . . . . .	10,112	2,392	3,694	2,089	1,713	224	785
VERMONT . . . . .	1,699	420	762	369	108	40	130
EASTERN--TOTAL . . . .	<u>103,506</u>	<u>26,398</u>	<u>43,256</u>	<u>23,129</u>	<u>8,095</u>	<u>2,628</u>	<u>8,235</u>
NEW YORK . . . . .	31,374	8,673	13,351	6,428	1,951	971	2,409
PENNSYLVANIA . . . . .	23,018	6,055	10,093	4,622	1,717	531	1,961
VIRGINIA . . . . .	16,127	3,471	5,862	4,962	1,465	367	1,231
MARYLAND . . . . .	10,318	2,487	4,567	2,354	678	232	747
WEST VIRGINIA . . . . .	3,130	919	1,353	635	175	48	230
DELAWARE . . . . .	1,873	392	830	431	191	29	177
NEW JERSEY . . . . .	16,863	4,192	6,868	3,504	1,887	412	1,454
DISTRICT OF COLUMBIA .	803	209	332	193	31	38	46
GREAT LAKES--TOTAL . .	<u>139,193</u>	<u>34,505</u>	<u>68,031</u>	<u>26,096</u>	<u>8,314</u>	<u>2,247</u>	<u>10,048</u>
ILLINOIS . . . . .	34,763	8,569	16,136	6,601	2,813	644	2,641
INDIANA . . . . .	15,430	3,913	7,755	2,909	637	216	1,126
MINNESOTA . . . . .	19,098	4,324	9,387	3,757	1,422	208	1,208
MICHIGAN . . . . .	25,594	6,489	13,009	4,457	1,199	440	1,748
OHIO . . . . .	29,470	7,397	14,200	5,787	1,519	567	2,343
WISCONSIN . . . . .	14,838	3,813	7,544	2,585	724	172	982
CENTRAL--TOTAL . . . .	<u>50,858</u>	<u>11,464</u>	<u>25,866</u>	<u>10,088</u>	<u>2,760</u>	<u>680</u>	<u>3,348</u>
KANSAS . . . . .	14,675	3,142	7,533	2,971	820	209	909
IOWA . . . . .	12,101	2,821	6,761	2,044	331	144	717
MISSOURI . . . . .	15,968	3,638	7,314	3,388	1,363	265	1,226
NEBRASKA . . . . .	8,114	1,863	4,258	1,685	246	62	496
SOUTHERN--TOTAL . . . .	<u>126,243</u>	<u>30,631</u>	<u>49,865</u>	<u>30,956</u>	<u>12,181</u>	<u>2,610</u>	<u>9,362</u>
NORTH CAROLINA . . . .	13,977	3,569	6,111	3,116	923	258	1,002
SOUTH CAROLINA . . . .	7,193	1,815	2,905	1,888	471	114	555
GEORGIA . . . . .	18,082	4,142	6,393	4,395	2,771	381	1,259
FLORIDA . . . . .	50,983	11,813	19,693	12,875	5,760	842	3,743
MISSISSIPPI . . . . .	6,253	1,611	2,459	1,822	282	79	449
ALABAMA . . . . .	10,608	2,629	4,191	2,911	443	434	961
TENNESSEE . . . . .	12,660	3,232	5,215	2,658	1,248	307	965
KENTUCKY . . . . .	6,487	1,820	2,898	1,291	283	195	455
SOUTHWEST--TOTAL . . .	<u>104,454</u>	<u>24,726</u>	<u>42,291</u>	<u>25,641</u>	<u>9,767</u>	<u>2,029</u>	<u>8,235</u>
LOUISIANA . . . . .	11,454	2,904	4,276	3,139	753	332	871
OKLAHOMA . . . . .	15,460	3,716	7,291	3,447	797	209	1,118
TEXAS . . . . .	63,289	14,652	24,564	15,380	7,488	1,205	5,193
NEW MEXICO . . . . .	6,995	1,707	3,039	1,687	353	209	522
ARKANSAS . . . . .	7,256	1,747	3,121	1,938	376	74	531

TABLE 4 (CONTINUED)

## ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL PILOTS	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	MISCELLAN- EOUS 2/	FLIGHT INSTRUCTOR 3/
ROCKY MOUNTAIN--TOTAL .	<u>43,455</u>	<u>11,030</u>	<u>19,017</u>	<u>9,133</u>	<u>3,272</u>	<u>1,003</u>	<u>3,110</u>
COLORADO . . . . .	20,215	5,106	7,742	4,237	2,388	742	1,577
WYOMING . . . . .	3,228	877	1,534	648	137	32	226
UTAH . . . . .	6,376	1,668	2,969	1,269	359	111	424
MONTANA . . . . .	5,778	1,368	2,981	1,169	214	46	377
NORTH DAKOTA . . . . .	4,048	1,017	1,918	1,010	78	25	273
SOUTH DAKOTA . . . . .	3,810	994	1,873	800	96	47	233
WESTERN--TOTAL . . . .	<u>144,848</u>	<u>33,232</u>	<u>63,809</u>	<u>31,643</u>	<u>12,896</u>	<u>3,268</u>	<u>10,269</u>
CALIFORNIA . . . . .	121,305	27,672	53,907	26,224	10,766	2,736	8,470
ARIZONA . . . . .	17,010	4,045	7,347	3,965	1,223	430	1,261
NEVADA . . . . .	6,533	1,515	2,555	1,454	907	102	538
NORTHWEST--TOTAL . . .	<u>47,520</u>	<u>11,365</u>	<u>21,611</u>	<u>10,391</u>	<u>3,341</u>	<u>812</u>	<u>3,515</u>
WASHINGTON . . . . .	26,006	5,927	10,871	6,181	2,503	524	1,999
OREGON . . . . .	15,402	3,957	7,795	2,892	549	209	1,055
IDAHO . . . . .	6,112	1,481	2,945	1,318	289	79	461
ALASKAN REGION--TOTAL .	<u>10,917</u>	<u>2,379</u>	<u>4,910</u>	<u>2,731</u>	<u>777</u>	<u>120</u>	<u>766</u>
PACIFIC REGION--TOTAL .	<u>3,948</u>	<u>905</u>	<u>1,115</u>	<u>1,143</u>	<u>603</u>	<u>182</u>	<u>314</u>
OUTSIDE U.S.--TOTAL . .	<u>16,490</u>	<u>3,909</u>	<u>3,194</u>	<u>5,225</u>	<u>3,774</u>	<u>388</u>	<u>748</u>

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ INCLUDES OUTSIDE U.S.

2/ INCLUDES HELICOPTER, GLIDER, AND LIGHTER-THAN-AIR.

3/ NOT INCLUDED IN TOTAL.

**Figure 3. Total Women Pilots:  
December 31, 1980**

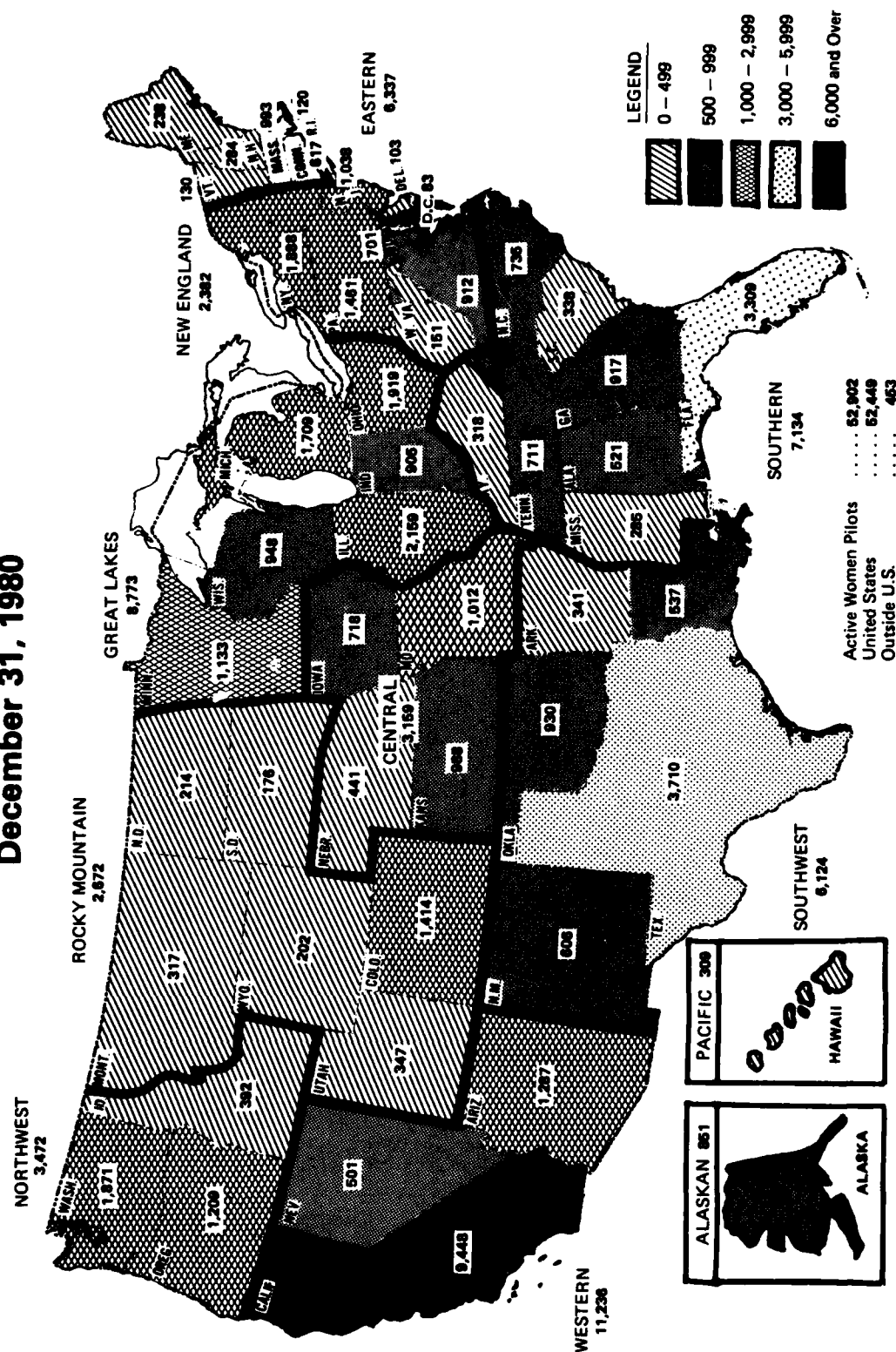


TABLE 5

ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL PILOTS	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	MISCELLAN- EOUS 2/	FLIGHT INSTRUCTOR 3/
TOTAL . . . .	52,902	26,006	21,554	3,993	480	869	2,079
UNITED STATES--TOTAL	<u>52,449</u>	<u>25,781</u>	<u>21,419</u>	<u>3,923</u>	<u>468</u>	<u>858</u>	<u>2,054</u>
NEW ENGLAND--TOTAL . .	<u>2,382</u>	<u>1,236</u>	<u>909</u>	<u>174</u>	<u>16</u>	<u>47</u>	<u>78</u>
MAINE . . . . .	238	118	97	17	2	4	9
NEW HAMPSHIRE . . . .	284	150	103	26	2	3	10
RHODE ISLAND . . . . .	120	62	50	7	0	1	3
MASSACHUSETTS . . . . .	993	525	378	66	4	20	27
CONNECTICUT . . . . .	617	318	229	48	8	14	26
VERMONT . . . . .	130	63	52	10	0	5	3
EASTERN--TOTAL . . . .	<u>6,337</u>	<u>3,167</u>	<u>2,483</u>	<u>485</u>	<u>48</u>	<u>154</u>	<u>263</u>
NEW YORK . . . . .	1,888	923	742	142	11	70	95
PENNSYLVANIA . . . . .	1,461	757	550	113	16	25	65
VIRGINIA . . . . .	912	462	373	59	7	11	30
MARYLAND . . . . .	701	328	290	64	7	12	26
WEST VIRGINIA . . . . .	151	88	53	8	0	2	4
DELAWARE . . . . .	103	55	41	6	0	1	2
NEW JERSEY . . . . .	1,038	514	404	83	5	32	37
DISTRICT OF COLUMBIA .	83	40	30	10	2	1	4
GREAT LAKES--TOTAL . .	<u>8,773</u>	<u>4,240</u>	<u>3,707</u>	<u>643</u>	<u>62</u>	<u>121</u>	<u>329</u>
ILLINOIS . . . . .	2,159	1,025	912	174	19	29	91
INDIANA . . . . .	905	460	357	78	4	6	33
MINNESOTA . . . . .	1,133	533	497	83	9	11	38
MICHIGAN . . . . .	1,709	832	715	109	14	39	54
OHIO . . . . .	1,919	938	800	142	11	28	80
WISCONSIN . . . . .	948	452	426	57	5	8	33
CENTRAL--TOTAL . . . .	<u>3,159</u>	<u>1,450</u>	<u>1,443</u>	<u>198</u>	<u>22</u>	<u>46</u>	<u>119</u>
KANSAS . . . . .	988	419	489	54	9	17	32
IOWA . . . . .	718	355	311	42	2	8	22
MISSOURI . . . . .	1,012	486	424	76	8	18	51
NEBRASKA . . . . .	441	190	219	26	3	3	14
SOUTHERN--TOTAL . . . .	<u>7,134</u>	<u>3,764</u>	<u>2,652</u>	<u>561</u>	<u>90</u>	<u>67</u>	<u>291</u>
NORTH CAROLINA . . . .	735	385	285	57	4	4	25
SOUTH CAROLINA . . . .	338	177	120	28	6	7	16
GEORGIA . . . . .	917	498	320	69	17	13	41
FLORIDA . . . . .	3,309	1,661	1,280	299	40	29	146
MISSISSIPPI . . . . .	285	167	95	15	6	2	14
ALABAMA . . . . .	521	293	195	28	1	4	12
TENNESSEE . . . . .	711	393	250	48	15	5	29
KENTUCKY . . . . .	318	190	107	17	1	3	8
SOUTHWEST--TOTAL . . .	<u>6,124</u>	<u>3,077</u>	<u>2,441</u>	<u>459</u>	<u>52</u>	<u>94</u>	<u>239</u>
LOUISIANA . . . . .	537	261	213	50	5	8	26
OKLAHOMA . . . . .	930	450	403	64	6	7	35
TEXAS . . . . .	3,710	1,906	1,462	268	32	42	146
NEW MEXICO . . . . .	606	298	223	41	8	36	19
ARKANSAS . . . . .	341	162	140	36	2	1	13



TABLE 5 (CONTINUED)

## ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL PILOTS	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	MISCELLAN- EOUS 2/	FLIGHT INSTRUCTOR 3/
ROCKY MOUNTAIN--TOTAL .	<u>2,672</u>	<u>1,344</u>	<u>1,059</u>	<u>190</u>	<u>24</u>	<u>55</u>	<u>119</u>
COLORADO . . . . .	1,414	729	512	110	17	46	75
WYOMING . . . . .	202	100	86	15	0	1	10
UTAH . . . . .	347	177	144	17	4	5	12
MONTANA . . . . .	319	155	147	15	2	0	7
NORTH DAKOTA . . . . .	214	91	94	29	0	0	13
SOUTH DAKOTA . . . . .	176	92	76	4	1	3	2
WESTERN--TOTAL . . . .	<u>11,236</u>	<u>5,272</u>	<u>4,759</u>	<u>883</u>	<u>112</u>	<u>210</u>	<u>439</u>
CALIFORNIA . . . . .	9,448	4,419	4,019	742	96	172	368
ARIZONA . . . . .	1,287	602	538	106	7	34	49
NEVADA . . . . .	501	251	202	35	9	4	22
NORTHWEST--TOTAL . . .	<u>3,472</u>	<u>1,670</u>	<u>1,476</u>	<u>254</u>	<u>22</u>	<u>50</u>	<u>126</u>
WASHINGTON . . . . .	1,871	863	810	155	12	31	72
OREGON . . . . .	1,209	613	501	74	8	13	37
IDAHO . . . . .	392	194	165	25	2	6	17
ALASKAN REGION--TOTAL .	<u>851</u>	<u>413</u>	<u>375</u>	<u>50</u>	<u>11</u>	<u>2</u>	<u>34</u>
PACIFIC REGION--TOTAL .	<u>309</u>	<u>148</u>	<u>115</u>	<u>26</u>	<u>8</u>	<u>12</u>	<u>17</u>
OUTSIDE U.S.--TOTAL . .	<u>453</u>	<u>225</u>	<u>135</u>	<u>70</u>	<u>12</u>	<u>11</u>	<u>25</u>

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ INCLUDES OUTSIDE U.S.

2/ INCLUDES HELICOPTER, GLIDER, AND LIGHTER-THAN-AIR.

3/ NOT INCLUDED IN TOTAL.

TABLE 6

## ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1980

CLASS OF CERTIFICATES	NUMBER OF CERTIFICATES HELD
TOTAL . . . . .	30,085
PRIVATE HELICOPTER . . . . .	374
PRIVATE GYROPLANE, PRIVATE AIRPLANE . . . . .	39
PRIVATE HELICOPTER, PRIVATE AIRPLANE . . . . .	960
PRIVATE HELICOPTER, PRIVATE AIRPLANE, PRIVATE GLIDER . . . . .	44
PRIVATE AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER . . . . .	2
PRIVATE AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	23
PRIVATE GYROPLANE . . . . .	5
PRIVATE AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	10
COMMERCIAL HELICOPTER . . . . .	5,440
COMMERCIAL HELICOPTER, PRIVATE AIRPLANE . . . . .	2,867
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	18,253
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER . . . . .	190
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	156
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	616
COMMERCIAL HELICOPTER, PRIVATE GLIDER . . . . .	9
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	8
COMMERCIAL GYROPLANE, COMMERCIAL AIRPLANE . . . . .	29
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER . . . . .	2
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER . . . . .	27
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	15
COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE . . . . .	2
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER . . . . .	13
AIRLINE TRANSPORT HELICOPTER . . . . .	192
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER . . . . .	809

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

TABLE 7

## ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1980

CLASS OF CERTIFICATES	NUMBER OF CERTIFICATES HELD
TOTAL . . . . .	19,626
PRIVATE GLIDER . . . . .	5,878
PRIVATE AIRPLANE, PRIVATE GLIDER . . . . .	4,400
PRIVATE AIRPLANE, COMMERCIAL GLIDER . . . . .	638
PRIVATE AIRPLANE, PRIVATE GLIDER, PRIVATE HELICOPTER . . . . .	44
PRIVATE AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	23
PRIVATE AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	10
PRIVATE GLIDER, COMMERCIAL AIRPLANE . . . . .	2,287
PRIVATE GLIDER, COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	156
PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	9
COMMERCIAL GLIDER . . . . .	1,161
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER . . . . .	4,366
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER . . . . .	13
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	616
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	8
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	15
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER . . . . .	2

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

TABLE 8

## ESTIMATED ACTIVE HELICOPTER AND GLIDER PILOTS:

DECEMBER 31, 1976-80

CALENDAR YEAR	TOTAL HELICOPTER PILOTS 1/		TOTAL GLIDER PILOTS 2/	
	NUMBER	PERCENT CHANGE	NUMBER	PERCENT CHANGE
1980 . . . . .	30,085	+ 4	19,626	+ 3
1979 . . . . .	28,857	- 1	18,973	+ 2
1978 . . . . .	28,890	+ 1	18,610	+ 4
1977 . . . . .	28,566	+ 3	17,933	+ 6
1976 . . . . .	27,816	- 1	16,866	+ 6

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA. PASS YEARS ARE BASED ON A 25-MONTH CRITERIA.

1/ INCLUDES PILOTS WITH RATINGS TO FLY HELICOPTERS ONLY.

2/ INCLUDES PILOTS WITH RATINGS TO FLY GLIDERS ONLY.

TABLE 9

## ESTIMATED TOTAL AND INSTRUMENT RATED PILOTS:

DECEMBER 31, 1976-80

CALENDAR YEAR	TOTAL PILOTS 1/	INSTRUMENT RATED PILOTS	
		NUMBER	PERCENT OF TOTAL
1980 . . . . .	627,238	260,461	42
1979 . . . . .	604,487	247,096	41
1978 . . . . .	593,959	236,312	40
1977 . . . . .	580,422	226,334	39
1976 . . . . .	555,625	211,364	38

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA. PASS YEARS ARE BASED ON A 25-MONTH CRITERIA.

1/ EXCLUDES STUDENT PILOTS.

TABLE 10

## ESTIMATED AIRLINE TRANSPORT CERTIFICATES HELD,

BY SELECTED AGE GROUPS: 1971-1980

YEAR	TOTAL	AGE GROUP		
		20-34 YEARS	35-44 YEARS	45 YEARS AND OVER
		NUMBER		
1971 . . . . .	35,949	7,087	11,838	17,024
1972 . . . . .	37,714	7,536	12,532	17,646
1973 . . . . .	38,139	7,588	12,587	17,964
1974 . . . . .	41,002	8,832	13,511	18,659
1975 . . . . .	42,592	9,242	14,028	19,322
1976 . . . . .	45,072	10,246	14,649	20,177
1977 . . . . .	50,149	11,847	16,663	21,639
1978 . . . . .	55,881	14,656	18,368	22,857
1979 . . . . .	63,652	18,331	20,680	24,641
1980 . . . . .	69,569	20,317	22,735	26,517
		PERCENT DISTRIBUTION		
1971 . . . . .	100.0	19.7	32.9	47.4
1972 . . . . .	100.0	20.0	33.2	46.8
1973 . . . . .	100.0	19.9	33.0	47.1
1974 . . . . .	100.0	21.5	33.0	45.5
1975 . . . . .	100.0	21.7	32.9	45.4
1976 . . . . .	100.0	22.7	32.5	44.8
1977 . . . . .	100.0	23.6	33.2	43.1
1978 . . . . .	100.0	26.2	32.9	40.9
1979 . . . . .	100.0	28.8	32.5	38.7
1980 . . . . .	100.0	29.2	32.7	38.1

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA. PASS YEARS ARE  
BASED ON A 25-MONTH CRITERIA.

TABLE 11

ESTIMATED ACTIVE PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDER: 1980, 1979, 1976

AGE GROUP	TYPE OF PILOT CERTIFICATES											
	TOTAL ACTIVE PILOTS			STUDENT			PRIVATE			COMMERCIAL		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	827,071	814,667	744,246	199,833	210,180	188,801	357,479	343,276	309,005	183,442	182,097	187,801
14-15 . . . . .	260	368	408	260	368	408	0	0	0	0	0	0
16-19 . . . . .	31,071	33,574	31,063	23,335	25,537	22,881	7,069	7,324	7,503	468	468	379
20-24 . . . . .	94,956	94,928	89,665	44,946	46,260	43,540	35,825	35,731	34,067	12,334	11,227	10,405
25-29 . . . . .	120,234	120,076	115,012	40,503	42,657	38,038	50,423	49,195	42,588	20,627	20,564	28,197
30-34 . . . . .	134,396	133,615	118,760	32,461	33,728	28,537	54,510	51,629	43,711	29,774	32,078	37,129
35-39 . . . . .	115,600	113,478	97,822	21,448	22,858	19,155	48,309	46,046	39,250	31,655	31,949	30,990
40-44 . . . . .	91,898	89,250	85,569	13,718	14,323	13,881	40,393	38,511	36,633	25,353	24,922	26,247
45-49 . . . . .	78,758	79,011	75,761	9,749	10,840	10,759	37,177	37,346	40,338	21,164	20,944	17,254
50-54 . . . . .	66,185	63,685	63,322	7,210	7,448	6,564	37,976	36,250	32,642	13,669	13,297	17,006
55-59 . . . . .	52,785	51,464	42,322	3,734	3,849	3,197	25,662	23,516	18,775	15,783	16,143	13,608
60 AND OVER	40,928	35,218	24,542	2,469	2,312	1,841	20,135	17,728	13,498	12,575	10,505	6,586
TYPE OF PILOT CERTIFICATES												
AGE GROUP	HELICOPTER (ONLY)			GLIDER (ONLY)			LIGHTER-THAN-AIR			FLIGHT INSTRUCTOR 1/		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	6,030	5,218	4,804	7,039	6,796	5,789	3,679	3,448	2,974	60,440	54,398	46,236
14-15 . . . . .	0	0	0	0	0	0	0	0	0	0	0	0
16-19 . . . . .	11	9	9	168	214	276	20	22	15	170	153	118
20-24 . . . . .	435	280	297	631	735	1,010	99	83	82	6,227	5,280	4,044
25-29 . . . . .	1,338	1,116	2,033	1,098	1,105	936	270	248	154	9,614	8,557	7,944
30-34 . . . . .	2,321	2,214	1,500	1,263	1,121	751	411	317	216	11,246	10,532	9,444
35-39 . . . . .	1,081	890	510	850	791	570	352	373	354	9,581	8,694	7,028
40-44 . . . . .	483	392	243	640	586	459	441	407	450	7,163	6,595	5,581
45-49 . . . . .	206	178	140	543	542	547	511	520	509	5,785	5,276	4,034
50-54 . . . . .	105	94	44	634	611	495	491	479	468	3,872	3,483	5,436
55-59 . . . . .	35	32	17	517	514	408	478	480	398	3,602	3,419	2,825
60 AND OVER	15	13	11	695	577	337	606	519	328	3,180	2,609	1,782

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA FOR 1980. PASS YEARS ARE BASED ON A 25-MONTH CRITERIA.

1/ NOT INCLUDED IN TOTAL ACTIVE PILOTS.

TABLE 12

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES: DECEMBER 31, 1979 AND 1980

CLASS OF CERTIFICATES	1979	1980	PERCENT CHANGE 1979-1980
TOTAL--ALL GROUPS . . . . .	247,096	260,461	+ 5
PRIVATE PILOTS--TOTAL . . . . .	<u>35,528</u>	<u>39,347</u>	+11
PRIVATE AIRPLANE (ONLY) . . . . .	32,935	36,529	+11
PRIVATE AIRPLANE, PRIVATE GLIDER . . . . .	798	849	+ 6
PRIVATE AIRPLANE, COMMERCIAL GLIDER . . . . .	68	68	--
PRIVATE AIRPLANE, PRIVATE HELICOPTER . . . . .	225	242	+ 8
PRIVATE AIRPLANE, PRIVATE GLIDER, PRIVATE HELICOPTER . . . . .	8	17	+112
PRIVATE AIRPLANE, COMMERCIAL HELICOPTER . . . . .	1,471	1,617	+10
PRIVATE AIRPLANE, PRIVATE GYROPLANE . . . . .	2	2	--
PRIVATE AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	14	14	--
PRIVATE AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	6	8	+33
PRIVATE AIRPLANE, OTHER . . . . .	1	1	--
COMMERCIAL PILOTS--TOTAL . . . . .	<u>144,838</u>	<u>147,741</u>	+ 2
COMMERCIAL AIRPLANE (ONLY) . . . . .	123,205	125,854	+ 2
COMMERCIAL AIRPLANE, PRIVATE GLIDER . . . . .	1,760	1,883	+ 7
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER . . . . .	3,342	3,377	+ 1
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER . . . . .	129	140	+ 8
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	15,638	15,734	+ 1
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	144	138	- 4
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	549	549	--
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE . . . . .	19	18	- 5
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE . . . . .	27	22	-19
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER . . . . .	1	1	--
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER . . . . .	10	11	+10
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	14	14	--
AIRLINE TRANSPORT PILOTS--TOTAL . . . . .	<u>63,652</u>	<u>69,569</u>	+ 9
AIRLINE TRANSPORT AIRLINE . . . . .	62,976	68,760	+ 9
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER . . . . .	676	809	+20
ROTORCRAFT PILOTS--TOTAL . . . . .	<u>3,078</u>	<u>3,804</u>	+24
COMMERCIAL HELICOPTER . . . . .	3,032	3,759	+24
AIRLINE TRANSPORT HELICOPTER . . . . .	30	28	- 7
ROTORCRAFT OTHER . . . . .	16	17	+ 6

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA FOR 1980. PASS YEAR IS BASED ON A 25-MONTH CRITERIA.



TABLE 13

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1980

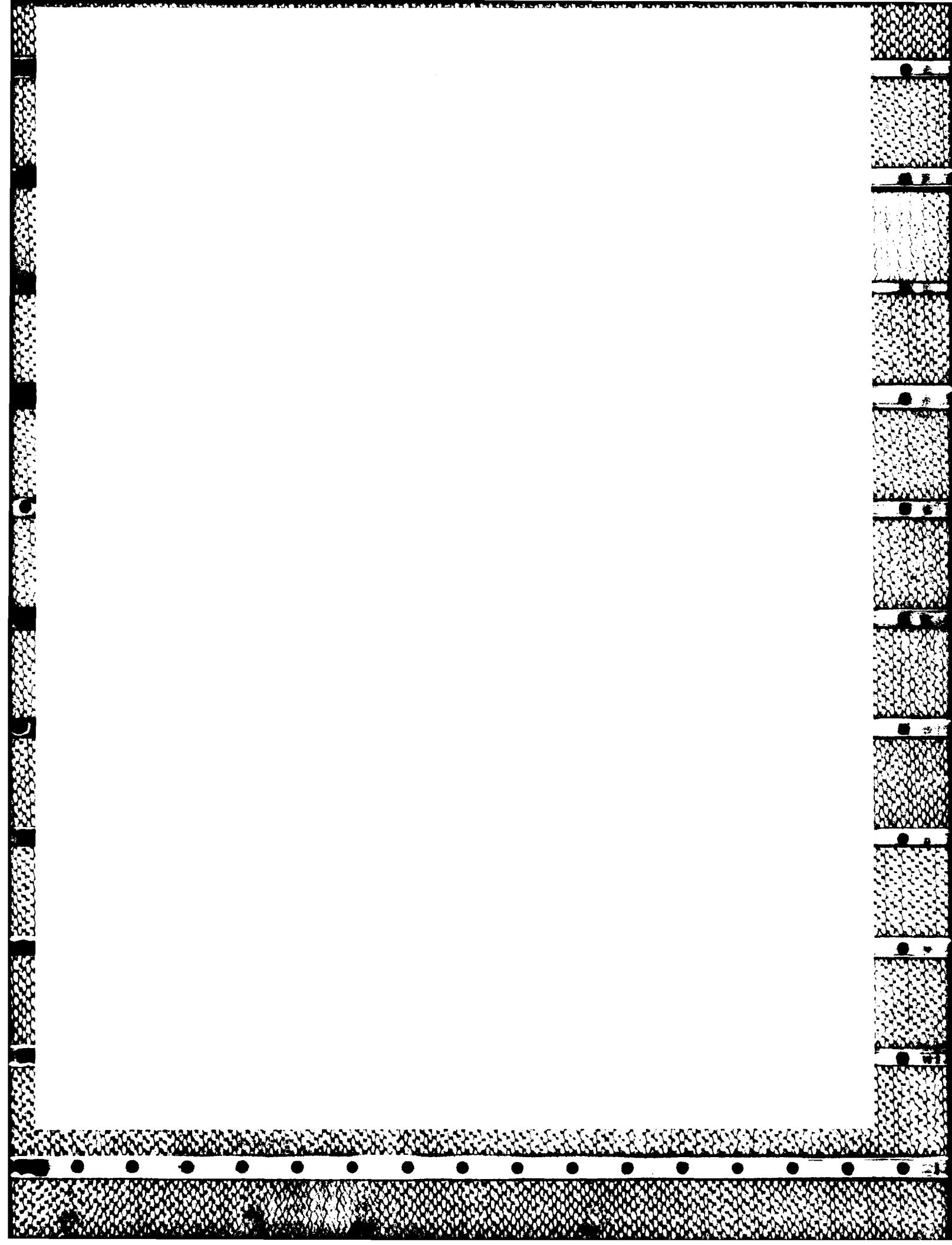
CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	ROCKY MOUNTAIN	WESTERN	NORTHWEST	ALASKAN	PACIFIC	FOREIGN
TOTAL--ALL GROUPS . . . . .	260,461	11,364	33,799	38,462	13,186	44,981	34,835	11,798	45,521	13,534	2,988	1,749	8,244
PRIVATE PILOTS--TOTAL . . . . .	39,347	1,635	5,798	8,406	2,503	5,997	4,231	1,414	6,960	1,918	188	73	220
PRIVATE AIRPLANE (ONLY) . . . . .	36,529	1,529	5,406	8,071	2,353	5,358	3,839	1,271	6,558	1,752	145	44	203
PRIVATE AIRPLANE, PRIVATE GLIDER . .	849	45	170	149	33	113	81	22	192	55	4	0	7
PRIVATE AIRPLANE, COMMERCIAL GLIDER	68	5	13	5	2	7	7	9	13	7	0	0	0
PRIVATE AIRPLANE, PRIVATE HELICOPTER	242	8	32	37	12	48	32	5	40	25	1	0	2
PRIVATE AIRPLANE, PRIVATE GLIDER, PRIVATE HELICOPTER . . . . .	17	0	3	5	0	3	2	1	3	0	0	0	0
PRIVATE AIRPLANE, COMMERCIAL HELICOPTER . . . . .	1,617	46	172	136	103	460	268	102	152	99	36	35	8
PRIVATE AIRPLANE, PRIVATE GYROPLANE, PRIVATE AIRPLANE, PRIVATE GLIDER,	2	1	0	0	0	1	0	0	0	0	0	0	0
COMMERCIAL HELICOPTER . . . . .	14	1	2	1	0	3	2	1	2	2	0	0	0
PRIVATE AIRPLANE, COMMERCIAL GLIDER	8	0	0	1	0	4	0	3	0	0	0	0	0
COMMERCIAL HELICOPTER . . . . .	1	0	0	1	0	0	0	0	0	0	0	0	0
PRIVATE AIRPLANE, OTHER . . . . .	1	0	0	1	0	0	0	0	0	0	0	0	0
COMMERCIAL PILOTS--TOTAL . . . . .	147,741	5,802	19,418	21,441	7,739	25,662	20,181	6,968	25,308	8,055	1,965	994	4,210
COMMERCIAL AIRPLANE (ONLY) . . . . .	125,854	5,011	16,334	19,099	6,815	21,014	17,030	5,980	21,455	6,776	1,611	748	3,981
COMMERCIAL AIRPLANE, PRIVATE GLIDER	1,883	70	318	245	62	302	209	110	427	97	15	15	17
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER . . . . .	3,377	159	534	485	127	500	392	193	713	191	26	25	52
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER . . . . .	140	7	11	23	9	24	19	5	21	17	2	1	1
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	15,734	522	2,114	1,500	701	3,693	2,444	640	2,529	919	301	204	167
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . .	138	7	25	20	3	23	14	10	25	7	2	0	2
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . .	549	23	78	58	20	98	66	27	120	41	7	2	9

TABLE 13 (CONTINUED)

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1980

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	ROCKY MOUNTAIN	WESTERN	NORTHWEST	ALASKAN	PACIFIC	FOREIGN
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE . . . . .	18	1	2	1	0	3	2	1	4	4	0	0	0
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE . .	22	2	0	3	1	2	4	1	6	2	0	1	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER . . . .	1	0	0	0	0	0	0	0	1	0	0	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER . . . . .	11	0	1	5	0	0	1	1	3	0	0	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	14	0	1	2	1	3	0	0	4	1	1	0	1
AIRLINE TRANSPORT PILOTS--TOTAL . . .	<u>69,569</u>	<u>3,789</u>	<u>8,095</u>	<u>8,314</u>	<u>2,760</u>	<u>12,181</u>	<u>9,767</u>	<u>3,272</u>	<u>12,896</u>	<u>3,341</u>	<u>777</u>	<u>603</u>	<u>3,774</u>
AIRLINE TRANSPORT AIRPLANE . . . . .	68,760	3,738	7,961	8,239	2,746	12,052	9,630	3,234	12,769	3,285	759	596	3,751
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER . . . . .	809	51	134	75	14	129	137	38	127	56	18	7	25
ROTOCRAFT PILOTS--TOTAL . . . . .	<u>3,804</u>	<u>138</u>	<u>488</u>	<u>301</u>	<u>184</u>	<u>1,141</u>	<u>656</u>	<u>144</u>	<u>357</u>	<u>220</u>	<u>162</u>	<u>73</u>	<u>40</u>
COMMERCIAL HELICOPTER . . . . .	3,759	134	483	298	184	1,134	648	140	350	219	60	72	57
AIRLINE TRANSPORT HELICOPTER . . . .	28	3	5	2	0	5	3	1	5	0	1	0	5
OTHER . . . . .	17	1	0	1	0	2	5	3	2	1	1	1	0

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.



II. ACTIVE NONPILOT CERTIFICATES HELD

TABLE 14

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1980 1/

FAA REGION AND STATE	TOTAL NONPILOT AIRMEN	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT NAVIGATOR	FLIGHT ENGINEER
TOTAL . . . . .	393,486	250,157	9,547	61,550	6,799	25,130	1,936	38,367
UNITED STATES--TOTAL . .	<u>380,420</u>	<u>241,685</u>	<u>9,412</u>	<u>60,481</u>	<u>5,385</u>	<u>24,902</u>	<u>1,846</u>	<u>36,709</u>
NEW ENGLAND--TOTAL . . . .	<u>19,139</u>	<u>12,302</u>	<u>394</u>	<u>2,856</u>	<u>138</u>	<u>921</u>	<u>202</u>	<u>2,221</u>
MAINE . . . . .	1,224	708	39	251	12	117	9	88
NEW HAMPSHIRE . . . . .	1,950	749	30	305	15	231	24	596
RHODE ISLAND . . . . .	960	611	45	189	5	55	4	51
MASSACHUSETTS . . . . .	9,028	6,797	183	1,185	65	336	21	441
CONNECTICUT . . . . .	5,422	3,136	85	787	36	174	146	1,058
VERMONT . . . . .	555	301	12	139	5	58	3	37
EASTERN--TOTAL . . . . .	<u>64,858</u>	<u>44,114</u>	<u>1,574</u>	<u>9,331</u>	<u>1,494</u>	<u>3,915</u>	<u>348</u>	<u>4,082</u>
NEW YORK . . . . .	27,832	20,032	386	3,378	1,139	1,712	127	1,058
PENNSYLVANIA . . . . .	14,327	10,520	334	2,141	108	589	54	581
VIRGINIA . . . . .	5,795	2,684	377	1,046	106	787	40	755
MARYLAND . . . . .	3,416	1,939	137	711	21	260	16	332
WEST VIRGINIA . . . . .	1,039	582	51	245	2	126	1	32
DELAWARE . . . . .	979	651	24	148	7	76	8	85
NEW JERSEY . . . . .	10,890	7,352	240	1,533	93	346	102	1,224
DISTRICT OF COLUMBIA . . .	580	374	25	129	18	19	0	15
GREAT LAKES--TOTAL . . . .	<u>49,653</u>	<u>30,517</u>	<u>1,233</u>	<u>9,635</u>	<u>505</u>	<u>3,214</u>	<u>57</u>	<u>4,492</u>
ILLINOIS . . . . .	14,952	8,912	281	2,666	248	796	19	2,030
INDIANA . . . . .	4,928	3,043	196	959	20	479	7	224
MINNESOTA . . . . .	8,190	5,095	139	1,261	127	356	8	1,294
MICHIGAN . . . . .	7,959	5,075	198	1,763	44	577	9	293
OHIO . . . . .	9,897	6,211	289	2,109	47	753	11	477
WISCONSIN . . . . .	3,727	2,181	130	877	19	253	3	264
CENTRAL--TOTAL . . . . .	<u>21,090</u>	<u>14,582</u>	<u>441</u>	<u>3,754</u>	<u>139</u>	<u>1,122</u>	<u>10</u>	<u>1,082</u>
KANSAS . . . . .	6,260	4,361	115	1,081	35	342	0	326
IOWA . . . . .	2,884	1,865	83	674	8	176	0	78
MISSOURI . . . . .	10,086	7,215	175	1,565	92	434	6	599
NEBRASKA . . . . .	1,860	1,141	68	434	4	170	4	39
SOUTHERN--TOTAL . . . . .	<u>62,314</u>	<u>36,827</u>	<u>1,742</u>	<u>9,473</u>	<u>1,143</u>	<u>5,634</u>	<u>294</u>	<u>2,201</u>
NORTH CAROLINA . . . . .	4,619	2,451	358	889	48	640	9	224
SOUTH CAROLINA . . . . .	2,165	1,006	80	483	7	411	7	171
GEORGIA . . . . .	12,201	7,063	284	1,348	199	761	24	2,522
FLORIDA . . . . .	29,588	18,279	502	4,279	699	2,002	228	3,599
MISSISSIPPI . . . . .	1,780	900	44	409	5	345	4	73
ALABAMA . . . . .	5,845	3,888	138	888	101	710	8	112
TENNESSEE . . . . .	4,313	2,258	168	821	78	537	12	439
KENTUCKY . . . . .	1,803	982	168	356	6	228	2	61
SOUTHWEST--TOTAL . . . . .	<u>48,766</u>	<u>30,505</u>	<u>1,062</u>	<u>8,257</u>	<u>351</u>	<u>3,541</u>	<u>101</u>	<u>4,949</u>
LOUISIANA . . . . .	4,291	2,707	105	737	23	396	4	319
OKLAHOMA . . . . .	10,894	8,244	186	1,623	22	579	12	228
TEXAS . . . . .	29,595	17,371	619	4,965	287	2,046	74	4,233
NEW MEXICO . . . . .	1,967	1,029	86	461	12	303	8	68
ARKANSAS . . . . .	2,019	1,154	66	471	7	217	3	101

TABLE 14 (CONTINUED)

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1980 1/

FAA REGION AND STATE	TOTAL NONPILOT AIRMEN	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT NAVIGATOR	FLIGHT ENGINEER
ROCKY MOUNTAIN--TOTAL . . .	<u>14,777</u>	<u>8,139</u>	<u>575</u>	<u>2,946</u>	<u>161</u>	<u>1,015</u>	<u>50</u>	<u>1,891</u>
COLORADO . . . . .	8,421	4,469	156	1,579	137	434	35	1,611
WYOMING . . . . .	886	580	30	186	6	45	4	35
UTAH . . . . .	1,939	1,109	77	364	12	222	6	149
MONTANA . . . . .	1,770	942	261	401	3	106	4	53
NORTH DAKOTA . . . . .	867	511	25	189	2	124	0	16
SOUTH DAKOTA . . . . .	894	528	26	227	1	84	1	27
WESTERN--TOTAL . . . . .	<u>75,685</u>	<u>49,878</u>	<u>1,483</u>	<u>10,632</u>	<u>1,018</u>	<u>3,765</u>	<u>615</u>	<u>8,294</u>
CALIFORNIA . . . . .	66,824	44,566	1,242	9,044	963	3,012	511	7,486
ARIZONA . . . . .	6,618	4,330	189	1,151	39	495	23	391
NEVADA . . . . .	2,243	982	52	437	16	258	81	417
NORTHWEST--TOTAL . . . . .	<u>17,299</u>	<u>10,431</u>	<u>720</u>	<u>2,673</u>	<u>191</u>	<u>1,073</u>	<u>138</u>	<u>2,073</u>
WASHINGTON . . . . .	12,036	7,169	349	1,694	162	736	95	1,831
OREGON . . . . .	3,561	2,262	225	657	20	191	37	169
IDAHO . . . . .	1,702	1,000	146	322	9	146	6	73
ALASKAN REGION--TOTAL . . .	<u>3,836</u>	<u>2,394</u>	<u>133</u>	<u>630</u>	<u>127</u>	<u>350</u>	<u>6</u>	<u>196</u>
PACIFIC REGION--TOTAL . . .	<u>3,003</u>	<u>1,996</u>	<u>55</u>	<u>294</u>	<u>118</u>	<u>302</u>	<u>20</u>	<u>218</u>
OUTSIDE U.S.--TOTAL . . . .	<u>13,066</u>	<u>8,472</u>	<u>135</u>	<u>1,069</u>	<u>1,414</u>	<u>228</u>	<u>90</u>	<u>1,658</u>

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ DATA FOR CONTROL TOWER OPERATORS, FLIGHT ENGINEERS, AND FLIGHT NAVIGATORS REPRESENT TOTAL ACTIVE RATINGS HELD. DATA FOR DISPATCHERS, MECHANICS, PARACHUTE RIGGERS, AND GROUND INSTRUCTORS, REPRESENT TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RETAIN THEIR VALIDITY.

TABLE 15

ESTIMATED ACTIVE WOMEN WITH NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1980 1/

FAA REGION AND STATE	TOTAL	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT ENGINEER
TOTAL . . . . .	6,111	890	562	3,015	141	1,332	171
UNITED STATES--TOTAL . .	<u>6,057</u>	<u>887</u>	<u>558</u>	<u>2,991</u>	<u>134</u>	<u>1,312</u>	<u>170</u>
NEW ENGLAND--TOTAL . . . .	<u>264</u>	<u>39</u>	<u>26</u>	<u>136</u>	<u>2</u>	<u>52</u>	<u>9</u>
MAINE . . . . .	32	5	4	15	0	8	0
NEW HAMPSHIRE . . . . .	25	2	1	10	0	10	2
RHODE ISLAND . . . . .	21	0	12	6	0	3	0
MASSACHUSETTS . . . . .	105	15	5	64	1	18	2
CONNECTICUT . . . . .	72	17	3	34	1	12	5
VERMONT . . . . .	9	0	1	7	0	1	0
EASTERN--TOTAL . . . . .	<u>848</u>	<u>87</u>	<u>66</u>	<u>424</u>	<u>35</u>	<u>222</u>	<u>14</u>
NEW YORK . . . . .	363	35	14	158	26	127	3
PENNSYLVANIA . . . . .	148	15	12	94	5	18	4
VIRGINIA . . . . .	121	11	29	46	1	31	3
MARYLAND . . . . .	61	1	4	38	0	17	1
WEST VIRGINIA . . . . .	18	8	0	7	0	3	0
DELAWARE . . . . .	13	4	1	5	0	3	0
NEW JERSEY . . . . .	109	13	5	66	2	21	2
DISTRICT OF COLUMBIA . . .	15	0	1	10	1	2	1
GREAT LAKES--TOTAL . . . .	<u>869</u>	<u>148</u>	<u>58</u>	<u>472</u>	<u>11</u>	<u>164</u>	<u>16</u>
ILLINOIS . . . . .	258	39	12	153	4	45	5
INDIANA . . . . .	85	7	19	42	0	13	4
MINNESOTA . . . . .	83	19	4	40	3	14	3
MICHIGAN . . . . .	179	27	6	89	3	52	2
OHIO . . . . .	198	49	13	105	0	30	1
WISCONSIN . . . . .	66	7	4	43	1	10	1
CENTRAL--TOTAL . . . . .	<u>313</u>	<u>66</u>	<u>22</u>	<u>176</u>	<u>1</u>	<u>46</u>	<u>2</u>
KANSAS . . . . .	95	21	6	55	0	12	1
IOWA . . . . .	73	19	3	43	1	7	0
MISSOURI . . . . .	113	25	11	58	0	18	1
NEBRASKA . . . . .	32	1	2	20	0	9	0
SOUTHERN--TOTAL . . . . .	<u>1,092</u>	<u>110</u>	<u>131</u>	<u>536</u>	<u>30</u>	<u>261</u>	<u>24</u>
NORTH CAROLINA . . . . .	128	10	39	44	2	33	0
SOUTH CAROLINA . . . . .	44	1	3	24	0	15	1
GEORGIA . . . . .	102	9	8	57	1	20	7
FLORIDA . . . . .	444	65	23	236	21	88	11
MISSISSIPPI . . . . .	55	6	4	28	0	16	1
ALABAMA . . . . .	152	3	6	90	1	51	1
TENNESSEE . . . . .	114	6	36	39	5	26	2
KENTUCKY . . . . .	53	10	12	18	0	12	1

TABLE 15 (CONTINUED)

ESTIMATED ACTIVE WOMEN WITH NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE: DECEMBER 31, 1980 1/

FAA REGION AND STATE	TOTAL	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT ENGINEER
SOUTHWEST--TOTAL . . . . .	828	98	123	422	5	161	19
LOUISIANA . . . . .	62	5	2	36	0	19	0
OKLAHOMA . . . . .	167	29	16	91	1	28	2
TEXAS . . . . .	505	60	87	243	4	95	16
NEW MEXICO . . . . .	61	3	15	34	0	8	1
ARKANSAS . . . . .	33	1	3	18	0	11	0
ROCKY MOUNTAIN--TOTAL . . . . .	259	31	22	155	2	40	9
COLORADO . . . . .	136	19	7	86	1	15	8
WYOMING . . . . .	15	4	2	7	0	2	0
UTAH . . . . .	36	4	6	16	0	9	1
MONTANA . . . . .	28	1	7	18	0	2	0
NORTH DAKOTA . . . . .	19	2	0	8	1	8	0
SOUTH DAKOTA . . . . .	25	1	0	20	0	4	0
WESTERN--TOTAL . . . . .	1,181	248	79	495	26	271	62
CALIFORNIA . . . . .	1,028	231	64	420	26	228	59
ARIZONA . . . . .	113	14	10	54	0	35	0
NEVADA . . . . .	40	3	5	21	0	8	3
NORTHWEST--TOTAL . . . . .	259	46	19	121	2	58	13
WASHINGTON . . . . .	156	32	6	61	1	44	12
OREGON . . . . .	75	9	12	43	0	10	1
IDaho . . . . .	28	5	1	17	1	4	0
ALASKAN REGION--TOTAL . . . . .	96	10	12	37	15	22	0
PACIFIC REGION--TOTAL . . . . .	48	4	0	17	5	20	2
OUTSIDE U.S.--TOTAL . . . . .	54	3	4	24	7	15	1

ESTIMATED: DATA IS BASED ON A 27-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL. THERE WERE NO WOMEN WITH CURRENT CERTIFICATES FOR FLIGHT NAVIGATOR.

1/ DATA FOR CONTROL TOWER OPERATORS, FLIGHT ENGINEERS, AND FLIGHT NAVIGATORS REPRESENT TOTAL ACTIVE RATINGS HELD. DATA FOR DISPATCHERS, MECHANICS, PARACHUTE RIGGERS, AND GROUND INSTRUCTORS, REPRESENT TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RATE THEIR VALIDITY.



TABLE 16

ESTIMATED ACTIVE NONPILOTS PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDER: 1980, 1979, 1976

Age Group	Type of Pilot Certificates											
	Total Nonpilots			Mechanic			Parachute Rigger			Ground Instructor		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . . .	393,486	377,213	334,681	250,157	237,611	212,303	9,547	9,381	8,718	61,550	59,680	55,464
16-19 . . . .	823	760	609	739	648	459	2	2	10	63	70	63
20-24 . . . .	16,927	15,880	13,855	11,894	10,437	7,735	180	219	442	2,111	2,122	1,986
25-29 . . . .	31,962	31,164	33,064	18,768	17,526	19,763	927	1,060	1,360	4,876	4,738	4,680
30-34 . . . .	52,960	52,235	45,468	28,870	28,652	26,201	1,698	1,625	1,372	7,186	7,220	7,165
35-39 . . . .	50,398	48,358	41,157	28,507	26,696	21,581	1,354	1,359	1,275	7,837	7,468	5,231
40-44 . . . .	43,713	41,932	39,084	24,012	23,117	23,442	1,392	1,368	1,268	5,396	4,884	3,773
45-49 . . . .	41,198	40,255	34,773	26,487	26,471	24,598	1,178	1,101	808	4,046	3,980	3,829
50-54 . . . .	35,559	34,682	41,020	26,084	25,488	29,728	772	733	732	4,294	4,575	6,536
55-59 . . . .	44,895	46,256	40,101	32,712	33,398	28,283	742	731	557	7,577	8,231	7,886
60 and over .	75,051	65,691	45,550	52,084	45,178	30,513	1,302	1,183	894	18,164	16,392	12,315
Age Group	Dispatcher			Control Tower Operator			Flight Navigator			Flight Engineer		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . . .	6,799	6,446	5,838	25,130	25,232	24,584	1,936	1,994	2,214	38,367	36,869	27,560
16-19 . . . .	0	0	1	19	40	76	0	0	0	0	0	0
20-24 . . . .	68	49	17	2,119	2,449	3,461	1	0	0	554	604	214
25-29 . . . .	344	286	244	4,555	4,857	5,913	2	1	2	2,490	2,696	1,102
30-34 . . . .	616	582	629	6,741	6,538	4,787	8	11	64	7,841	7,607	5,250
35-39 . . . .	804	765	630	4,011	3,631	3,452	113	206	498	7,772	8,233	8,490
40-44 . . . .	691	663	685	2,901	3,152	3,233	532	554	537	8,789	8,194	6,146
45-49 . . . .	724	712	651	2,633	2,632	1,867	467	403	272	5,663	4,956	2,748
50-54 . . . .	664	681	775	1,127	896	894	235	266	328	2,383	2,043	2,027
55-59 . . . .	869	908	965	650	743	719	316	344	408	2,029	1,901	1,283
60 and over .	2,019	1,800	1,241	374	294	182	262	209	105	846	635	300

ESTIMATED: DATA FOR 1980 IS BASED ON A 27-MONTH CRITERIA. PASS YEARS WERE BASED ON A 25-MONTH CRITERIA

✓ NUMBER REPRESENT ALL CERTIFICATES ON RECORD. NO MEDICAL EXAMINATION REQUIRED.

### III. PILOT CERTIFICATES ISSUED

THE STUDENT PILOT CERTIFICATE IS A MEDICAL CERTIFICATE ISSUED TO THE STUDENT BY AN AVIATION MEDICAL EXAMINER. THE MEDICAL APPLICATION IS THEN SENT TO THE CIVIL AEROMEDICAL INSTITUTE (CAMI) AT THE MIKE MONRONEY AERONAUTICAL CENTER IN OKLAHOMA CITY. THE APPLICATION IS PROCESSED THROUGH A COMPUTER PROGRAM TO VERIFY THAT THE MEDICAL STANDARDS HAVE BEEN MET. AT THIS POINT, THE STUDENTS NAME IS ADDED TO THE LIST OF ACTIVE STUDENT PILOTS.

THEREFORE, THE COUNTS OF STUDENT CERTIFICATES ISSUED BY MONTH IN THE PAST HAVE ACTUALLY BEEN THE NUMBER OF NEW CERTIFICATES PROCESSED BY CAMI THAT MONTH--THE ISSUANCE HAVING TAKEN PLACE EARLIER. WE ARE NOW ABLE TO PROVIDE COUNTS OF THE NUMBER ISSUED. TABLE 20 SHOWS THE NUMBER PROCESSED AND TABLE 21 SHOWS THE NUMBER ISSUED EACH MONTH.

WE WILL CONTINUE TO SHOW BOTH DATA SERIES UNTIL WE HAVE A FULL FIVE YEAR TIME SERIES FOR THE NUMBER OF STUDENT CERTIFICATES ISSUED EACH MONTH.

TABLE 17

PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEARS 1976-1980

CATEGORY OF CERTIFICATES	1976		1977		1978		1979		1980	
	ORIGINAL ISSUANCES	ADDITIONAL RATINGS	ORIGINAL ISSUANCES	ADDITIONAL RATINGS	ORIGINAL ISSUANCES	ADDITIONAL RATINGS	ORIGINAL ISSUANCES	ADDITIONAL RATINGS	ORIGINAL ISSUANCES	ADDITIONAL RATINGS
PILOT--TOTAL . . . . .	204,489	39,112	212,331	44,708	216,107 B/	39,959	214,567	41,331	175,235	38,791
STUDENT 1/ . . . . .	129,280	0	138,816	0	137,032 B/	0	135,956	0	102,301	0
PRIVATE . . . . .	55,583	12,618	54,657	15,104	58,064	16,048	54,466	16,466	50,458	16,095
COMMERCIAL . . . . .	13,577	22,059	11,121	22,806	11,789	17,501	12,627	17,793	12,452	16,015
AIRLINE TRANSPORT . . . . .	3,869	3,901	5,697	6,229	6,912	5,921	8,981	6,605	7,116	6,289
HELICOPTER (ONLY) . . . . .	1,064	276	944	328	1,122	287	1,300	283	1,721	272
GLIDER (ONLY) . . . . .	848	238	792	220	759	188	642	157	583	151
LIGHTER-THAN-AIR . . . . .	268	20	304	21	429	14	595	29	644	29
Nonpilot--TOTAL . . . . .	15,069	7,751	16,066	7,267	16,418	6,679	17,895	7,129	17,280	7,275
MECHANIC . . . . .	8,501	3,149	9,121	3,307	8,791	3,269	9,697	3,812	11,640	4,254
PARACHUTE RIGGER . . . . .	454	76	304	36	235	50	201	45	185	50
GROUND INSTRUCTOR . . . . .	2,390	707	2,404	729	2,193	574	2,081	513	1,981	570
DISPATCHER . . . . .	106	0	161	0	193	0	292	0	351	0
CONTROL TOWER OPERATOR . . . . .	2,382	3,686	1,645	3,008	1,391	2,540	1,109	2,483	1,179	2,286
FLIGHT NAVIGATOR . . . . .	2	0	16	0	8	1	2	0	9	0
FLIGHT ENGINEER . . . . .	1,234	133	2,415	187	3,607	245	4,513	276	1,935	115
FLIGHT INSTRUCTOR CERTI- FICATES 2/ . . . . .	6,137	4,718	6,352	6,397	5,930	5,375	6,716	6,072	7,188	6,953
INTRUMENT RATINGS* . . . . .	0	18,155	0	18,764	0	16,265	0	16,651	0	16,123

1/ DATA REPRESENTS THE NUMBER PROCESSED EACH YEAR.

B/ REVISED.

NOTE: ADDITIONAL RATINGS ARE ENTERED ON CURRENT AIRMAN CERTIFICATES AS FOLLOWS:

PRIVATE, COMMERCIAL, AND AIRLINE TRANSPORT PILOT--"AIRCRAFT CATEGORY, CLASS, AND TYPE INSTRUMENT RATING."

HELICOPTER PILOT--"INSTRUMENT AND TYPE RATINGS."

FLIGHT INSTRUCTOR--"RATINGS FOR EACH AIRCRAFT CATEGORY IN WHICH THE HOLDER IS QUALIFIED, AND FOR INSTRUMENT FLYING INSTRUCTION."

MECHANIC--"AIRCRAFT AND POWERPLANT RATINGS."

PARACHUTE RIGGER--"SENIOR OR MASTER RIGGER RATINGS."

GROUND INSTRUCTOR--"RATINGS FOR EACH SUBJECT IN WHICH THE HOLDER IS QUALIFIED TO GIVE INSTRUCTION."

AIR TRAFFIC CONTROL TOWER OPERATOR--"JUNIOR/SENIOR RATINGS FOR AIRPORT WHERE HOLDER MAY CONTROL AIR TRAFFIC."

\* SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES REPRESENTED ABOVE; NOT TO BE ADDED TO TOTAL.

2/ NOT INCLUDED IN TOTAL.

TABLE 18

## PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEAR 1980

CATEGORY OF CERTIFICATES	TOTAL RATINGS ISSUED	ORIGINAL ISSUANCES				ADDITIONAL RATINGS			
		Total	EXAMINER	INSPECTOR	No. Test	Total	EXAMINER	INSPECTOR	No. Test
TOTAL . . . . .	238,581	192,515	69,941	108,804	13,770	46,066	36,145	6,605	3,316
PILOT--TOTAL . . . . .	214,026	175,235	58,392	107,518	9,325	38,791	29,855	6,445	2,491
STUDENT . . . . .	102,301	102,301	0	102,301	0	0	0	0	0
PRIVATE . . . . .	66,493	50,458	44,182	724	5,552	16,035	15,196	345	494
COMMERCIAL . . . . .	28,467	12,452	9,723	270	2,459	16,015	13,171	1,004	1,840
AIRLINE TRANSPORT . . . . .	13,405	7,116	3,099	3,864	153	6,289	1,250	4,995	44
HELICOPTER (ONLY) . . . . .	1,993	1,721	356	211	1,154	272	82	79	111
GLIDER (ONLY) . . . . .	734	583	524	56	3	151	135	14	2
LIGHTER-THAN-AIR . . . . .	633	604	508	92	4	29	21	8	0
NONPILOT--TOTAL . . . . .	24,555	17,280	11,549	1,286	4,445	7,275	6,290	160	825
MECHANIC . . . . .	15,894	11,640	9,188	114	2,338	4,254	3,964	70	220
PARACHUTE RIGGER . . . . .	235	185	117	35	33	50	38	4	8
GROUND INSTRUCTOR . . . . .	2,551	1,981	5	53	1,923	570	4	9	557
DISPATCHER . . . . .	351	351	98	232	21	0	0	0	0
CONTROL TOWER OPERATOR . . . . .	3,465	1,179	1,164	6	9	2,286	2,247	12	27
FLIGHT NAVIGATOR . . . . .	9	9	0	2	7	0	0	0	0
FLIGHT ENGINEER . . . . .	2,050	1,935	977	844	114	115	37	65	13
FLIGHT INSTRUCTOR* . . . . .	14,141	7,188	5,184	1,998	6	6,953	4,468	2,481	4

## NOTE: EXCLUDES RENEWALS.

ADDITIONAL RATINGS ARE ENTERED ON CURRENT AIRMAN CERTIFICATES AS FOLLOWS: PRIVATE, COMMERCIAL, AND AIRLINE TRANSPORT PILOT--AIRCRAFT CATEGORY, CLASS, AND TYPE INSTRUMENT RATINGS.

HELICOPTER PILOT--INSTRUMENT AND TYPE RATINGS.

FLIGHT INSTRUCTOR--RATINGS FOR EACH AIRCRAFT CATEGORY IN WHICH THE HOLDER IS QUALIFIED TO INSTRUCT, AND RATINGS FOR INSTRUMENT FLYING INSTRUCTION.

MECHANIC--AIRFRAME AND POWERPLANT RATINGS.

PARACHUTE RIGGER--SENIOR OR MASTER RIGGER RATINGS.

GROUND INSTRUCTOR--RATINGS FOR EACH SUBJECT IN WHICH THE HOLDER IS QUALIFIED TO GIVE GROUND INSTRUCTION.

AIR TRAFFIC CONTROL TOWER OPERATOR--JUNIOR/SENIOR RATINGS FOR AIRPORTS WHERE HOLDER MAY CONTROL AIR TRAFFIC.

\* SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES REPRESENTED ABOVE, NOT TO BE ADDED TO TOTAL.

TABLE 19

INSTRUMENT RATINGS ISSUED: 1980, 1979, 1976

CLASS OF CERTIFICATES	1980	1979	1976	PERCENT CHANGE 1979-1980
TOTAL--ALL GROUPS . . . . .	16,123	16,651	18,155	-3
PRIVATE PILOTS--TOTAL . . . . .	<u>10,418</u>	<u>10,311</u>	<u>6,686</u>	<u>+1</u>
PRIVATE AIRPLANE (ONLY) . . . . .	9,714	9,584	6,135	+1
PRIVATE AIRPLANE, PRIVATE GLIDER . . . . .	112	128	92	-12
PRIVATE AIRPLANE, COMMERCIAL GLIDER . . . . .	6	6	4	0
PRIVATE AIRPLANE, PRIVATE HELICOPTER . . . . .	15	20	12	-25
PRIVATE AIRPLANE, COMMERCIAL HELICOPTER . . . . .	208	220	194	-5
PRIVATE AIRPLANE, PRIVATE GLIDER, PRIVATE HELICOPTER . . . . .	1	0	0	0
PRIVATE AIRPLANE, OTHER . . . . .	362	353	249	+3
COMMERCIAL PILOTS--TOTAL . . . . .	<u>4,753</u>	<u>5,602</u>	<u>10,793</u>	<u>-12</u>
COMMERCIAL AIRPLANE (ONLY) . . . . .	3,821	4,646	9,624	-18
COMMERCIAL AIRPLANE, PRIVATE GLIDER . . . . .	45	70	125	-36
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER . . . . .	56	98	99	-43
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER . . . . .	2	2	1	0
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER . . . . .	810	753	920	-8
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . . . . .	8	4	6	+100
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . . . . .	10	23	12	+57
COMMERCIAL AIRPLANE, OTHER . . . . .	1	6	6	-85
ROTORCRAFT PILOTS--TOTAL . . . . .	<u>952</u>	<u>738</u>	<u>676</u>	<u>+29</u>
COMMERCIAL HELICOPTER . . . . .	927	710	671	+31
COMMERCIAL HELICOPTER, AIRLINE TRANSPORT HELICOPTER . . . . .	22	21	3	+5
COMMERCIAL HELICOPTER, PRIVATE GLIDER . . . . .	1	4	1	-25
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER . . . . .	2	3	1	-33
COMMERCIAL HELICOPTER, OTHER . . . . .	0	0	0	0

TABLE 20

STUDENT CERTIFICATES PROCESSED, BY MONTH: 1976-1980

MONTH	1980	1979	1978	1977	1976
TOTAL . . . . .	102,301	135,956	137,032 R/	138,816	129,280
JANUARY . . . . .	10,462	12,926	7,385 R/	10,247	11,853
FEBRUARY . . . . .	7,835	10,585	8,253 R/	8,010	6,396
MARCH . . . . .	7,872	9,525	11,234 R/	11,921	10,921
APRIL . . . . .	7,775	9,968	10,646 R/	9,871	10,835
MAY . . . . .	8,510	9,919	11,032	10,286	10,749
JUNE . . . . .	8,577	9,308	11,490	11,573	10,322
JULY . . . . .	6,941	13,266	10,544	11,372	12,300
AUGUST . . . . .	10,590	16,920	13,839	15,262	12,930
SEPTEMBER . . . . .	9,936	12,051	11,904	13,987	12,320
OCTOBER . . . . .	9,186	11,926	15,548	11,678	8,864
NOVEMBER . . . . .	7,052	12,928	13,096	15,114	12,292
DECEMBER . . . . .	7,565	6,634	12,061	9,495	9,498

R/ REVISED.

TABLE 21

## STUDENT CERTIFICATES ISSUED, BY MONTH: 1979-1980

MONTH	1980	1979
TOTAL . . . . .	109,750	128,752
JANUARY . . . . .	8,061	8,656
FEBRUARY . . . . .	7,783	7,586
MARCH . . . . .	7,970	10,474
APRIL . . . . .	8,481	10,094
MAY . . . . .	8,425	11,639
JUNE . . . . .	9,854	13,158
JULY . . . . .	11,340	13,801
AUGUST . . . . .	10,353	13,819
SEPTEMBER . . . . .	10,670(E)	11,542
OCTOBER . . . . .	10,156(E)	12,110
NOVEMBER . . . . .	9,696(E)	9,040
DECEMBER . . . . .	6,961(E)	6,833

(E) BASED ON 19 MONTH AVERAGE.

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